



INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2003/002425

| A. CLASSIFICATION OF SUBJECT MATTER IPC7 C07K 19/00 According to International Patent Classification (IPC) or to both national classification and IPC | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|-----------------------|---|--|------|---|--|------|---|--|------|---|--|------|---|--|------|
| B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC7 C07K 19/00, C07K 7/06, C12N 15/00, C12N 15/62, C12N 15/63 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Patents and applications for inventions since 1975 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) NCBI PubMed, Esp@cenet, CA "GAL4, Protein transduction domain, DNA binding domain, fusion protein, DNA delivery" | | | | | | | | | | | | | | | | | | | | |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Category*</th> <th style="width: 70%;">Citation of document, with indication, where appropriate, of the relevant passages</th> <th style="width: 20%;">Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Y</td> <td>YE D. et al., 'Evaluation of strategies for the intracellular delivery of proteins', In: Pharm. Res., September 2002, Vol. 19(9), pp. 1302-1309. See the whole document</td> <td style="text-align: center;">1-10</td> </tr> <tr> <td style="text-align: center;">Y</td> <td>CHAN C. K. et al., 'Mutual exclusivity of DNA binding and nuclear localization signal recognition by the yeast transcription factor GAL4: implications for nonviral DNA delivery', In: Gene Ther., 1998, Vol. 5(9), pp. 1204-1212. See the whole document</td> <td style="text-align: center;">1-10</td> </tr> <tr> <td style="text-align: center;">Y</td> <td>Daviet L. et al., 'Identification of limiting steps for efficient trans-activation of HIV-1 promoter by Tat in Saccharomyces cerevisiae', In: J. Biol. Chem., 1998, Vol. 273(43), pp. 28219-28228. See the whole document</td> <td style="text-align: center;">1-10</td> </tr> <tr> <td style="text-align: center;">Y</td> <td>WO 1999/010376 A1 (Washington Uni.) 4 March 1999 See the claims</td> <td style="text-align: center;">1-10</td> </tr> <tr> <td style="text-align: center;">A</td> <td>Eguchi A. et al., 'Protein transduction domain of HIV-1 Tat protein promotes efficient delivery of DNA into mammalian cells', In: J. Biol. Chem., 2001, Vol. 276(28), pp. 26204-26210. See the whole document</td> <td style="text-align: center;">1-10</td> </tr> </tbody> </table> | | | Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. | Y | YE D. et al., 'Evaluation of strategies for the intracellular delivery of proteins', In: Pharm. Res., September 2002, Vol. 19(9), pp. 1302-1309. See the whole document | 1-10 | Y | CHAN C. K. et al., 'Mutual exclusivity of DNA binding and nuclear localization signal recognition by the yeast transcription factor GAL4: implications for nonviral DNA delivery', In: Gene Ther., 1998, Vol. 5(9), pp. 1204-1212. See the whole document | 1-10 | Y | Daviet L. et al., 'Identification of limiting steps for efficient trans-activation of HIV-1 promoter by Tat in Saccharomyces cerevisiae', In: J. Biol. Chem., 1998, Vol. 273(43), pp. 28219-28228. See the whole document | 1-10 | Y | WO 1999/010376 A1 (Washington Uni.) 4 March 1999 See the claims | 1-10 | A | Eguchi A. et al., 'Protein transduction domain of HIV-1 Tat protein promotes efficient delivery of DNA into mammalian cells', In: J. Biol. Chem., 2001, Vol. 276(28), pp. 26204-26210. See the whole document | 1-10 |
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| <input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex. | | | | | | | | | | | | | | | | | | | | |
| <table style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> * Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed </td> <td style="width: 50%; vertical-align: top;"> "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family </td> </tr> </table> | | | * Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family | | | | | | | | | | | | | | | | |
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| Date of the actual completion of the international search 20 FEBRUARY 2004 (20.02.2004) | | Date of mailing of the international search report 20 FEBRUARY 2004 (20.02.2004) | | | | | | | | | | | | | | | | | | |
| Name and mailing address of the ISA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140 | | Authorized officer CHO, YOUNG GYUN Telephone No. 82-42-481-8132  | | | | | | | | | | | | | | | | | | |

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Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of :

a. type of material

- ☒ a sequence listing
☐ table(s) related to the sequence listing

b. format of material

- ☒ in written format
☒ in computer readable form

c. time of filing/furnishing

- ☒ contained in the international application as filed
☒ filed together with the international application in computer readable form
☐ furnished subsequently to this Authority for the purposes of search

2. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

3. Additional comments:

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2003/002425

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|---|---------------------|----------------------------------|--------------------------|
| WO 1999/010376 A1 | 04.03.1999 | EP 1005486 A1 JP 2001513987 T | 07.06.2000 11.09.2001 |